



Query/Command : prt max legalall



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- PN** -  US2002159366 A1 20021031 [US20020159366]
- PN2** -  US6661760 B2 20031209 [US6661760]
- TI** - (A1) Optical recording method and optical recording medium
- PA** - (A1) MITSUBISHI CHEM CORP (JP)
- PA0** - Mitsubishi Chemical Corporation, Tokyo [JP]
- PA2** - (B2) MITSUBISHI CHEM CORP (JP)
- IN** - (A1) HORIE MICHIKAZU (JP); NOBUKUNI NATSUKO (JP)
- AP** - US14198102 20020510 [2002US-0141981]
- FD** - PCT/JP00/03036 20000511 [2000WO-JP03036]
Division of: US6411579
- PR** - US14198102 20020510 [2002US-0141981]
JP13806799 19990519 [1999JP-0138067]
JP2000076514 20000317 [2000JP-0076514]
WOJP0003036 20000511 [2000WO-JP03036]
US88412101 20010620 [2001US-0884121]
- IC** - (A1) G11B-007/0045
- PCL** - ORIGINAL (O) : 369059110; CROSS-REFERENCE (X) : 369059120
369059200 369116000
- CT** - Cited; US5568461; US5703855; Cited; US5530688; US5732062; US5848043;
US6256277; US6294310; EP0388897; EP0867868; EP0902424; JP62-259229;
JP63-22439; JP63-266632; JP7-37251; JP7-37252; JP8-287465; JP9-7176; JP9-282661
Cited by applicant
N. Nobukuni, et al., J. Appl Physics, "Microstructural changes in GeSbTe film during repetitious overwriting in phase-change optical recording," Dec. 15, 1995, pp. 6980-6988.
- STG** - (A1) Utility Patent Application published on or after January 2, 2001
- STG2** - (B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001
- AB** - An optical recording method for recording mark length-modulated information on a recording medium by using a plurality of recording mark lengths. The optical recording method comprises the steps of:
when a time length of one recording mark is denoted nT (T is a reference clock period equal to or less than 25 ns, and n is a natural number equal to or more than 2),
- (i) dividing the time length of the recording mark nT into $\epsilon_1 T$, $\alpha_1 T$, $\beta_1 T$, $\alpha_2 T$, $\beta_2 T$, ..., $\alpha_i T$, $\beta_i T$, ..., $\alpha_m T$, $\beta_m T$, $\epsilon_2 T$
- in that order (m is a pulse division number; $\text{SIGMA } -i- (\alpha_i -i- +\beta_i -i-) +\epsilon_1 -1- +\epsilon_2 -2- =n$; $\alpha_i -i- (1 \leq i \leq m)$ is a real number >0 ; $\beta_i -i- (1 \leq i \leq m-1)$ is a real number >0 ; $\beta_m -m-$ is a real number ≥ 0 ; and $\epsilon_1 -1-$ is a real number of $-2 \leq \epsilon_1 -1- \leq 2$ and $\epsilon_2 -2-$ is a real number of $-2 \leq \epsilon_2 -2- \leq 2$);
radiating recording light with a recording power P_{wi} in a time duration of $\alpha_i T$ ($1 \leq i \leq m$), and radiating recording light with a bias power P_{bi} in a time

duration of beta iT ($1 \leq i \leq m$), the bias power being $P_{bi} < P_{wi}$ and $P_{bi} < P_{wi+1}$; and
(ii) changing m, alpha i, beta i, eta 1, eta 2, P_{wi} and P_{bi} according to n of the time length nT of the recording mark;
wherein the pulse division number m is 2 or more for the time duration of at least one recording mark and meets $n/m \geq 1.25$ for the time length of all the recording marks.

UP - 2002-45

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PN -  US2002159366 A1 20021031 [US20020159366]
 US6661760 B2 20031209 [US6661760]

AP - US14198102 20020510 [2002US-0141981]

ACT - 20040803 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040416

UP - 2004-34

1 / 1 CRXX - ©CLAIMS/RRX

PN -  6,661,760 A 20031209 [US6661760]

PA - Mitsubishi Chemical Corp JP

ACT - 20040416 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040803
REISSUE REQUEST NUMBER: 10/805489
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2655

Reissue Patent Number:

Search statement 3

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6661760

December 9, 2003

LEXIS-NEXIS

Library: PATENTS

File: ALL

Optical recording method and optical recording medium

REISSUE: April 16, 2004 - Reissue Application filed Ex. Gp.: 2655; Re. S.N.
10/805,489 (O.G. August 3, 2004)

APPL-NO: 141981 (10)

FILED-DATE: May 10, 2002

GRANTED-DATE: December 9, 2003

CORE TERMS: recording, pulse, clock, layer, linear, velocity, medium,
modulation, gate, phase ...

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